DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
)	
	•	111

EX

1000000 10000000 10000000 10000000 100000000	HH HHHHHHH	MM MM MMM MMM MMMM MMMM MMMM MM MM MM MM	\$	BBBBBBBB BBBBBBBB BB	\$
		\$			

EDT1 V04-

```
EDT
VO4
```

; R

(1)

```
B 13
                                                                               16-Sep-1984 00:12:59
14-Sep-1984 12:22:47
                                                                                                                       VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[EDT.SRC]CHMSUBS.BLI;1
EDTSCHMSUBS - change mode SUBSTITUTE command
          O XTITLE 'EDT$CHMSUBS - change mode SUBSTITUTE command'
0002
             MODULE EDTSCHMSUBS (
                                                                                             ! Change mode SUBSTITUTE command
                                        IDENT = 'V04-000'
                                                                                                          ! File: CHMSUBS.BLI Edit: JBS1008
0004
                                        ) =
0005
             BEGIN
0006
8000
                    COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0009
0010
0011
                    ALL RIGHTS RESERVED.
0012
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0014
0015
0016
0017
                    OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
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                    TRANSFERRED.
0019
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                    CORPORATION.
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0025
                    SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026
0027
0028
0029
0030
0031
0032
                FACILITY:
                                       EDT -- The DEC Standard Editor
0034
                ABSTRACT:
0035
0036
                          This module executes the change mode SUBSTITUTE (S) command.
0037
0038
                ENVIRONMENT: Runs at any access mode - AST reentrant
0039
0040
                AUTHOR: Bob Kushlis, CREATION DATE: Unknown
0041
0042
                MODIFIED BY:
                1-001 - Original. DJS 04-feb-1981. This module was created by extracting the routine EDT$$SUB_CMD from module CHANGE.BLI.
1-002 - Regularize headers. JBS 04-Mar-1981
1-003 - Use new message codes. JBS 04-Aug-1981
1-004 - New cursor position on backwards substitute. SMB 28-Oct-1981
1-005 - Delete initial blank line by running through PRETTY. JBS 02-Nov-1981
1-006 - Rework edit 1-004 to accomplish the same thing without changing the cursor position from V2. SMB 17-Aug-1982
0044
```

1-007 - Remove EDT\$\$G_LN_NO for new screen update logic. JBS 29-Sep-1982

1-008 - Pass the correct in aber of lines to EDT\$\$DEL_TXTLN. JBS 08-Oct-1982

53

55

EDT VO4

SRI ELLI

```
D 13
                    EDT$CHMSUBS - change mode SUBSTITUTE command 16-Sep-1984 00:12:59 EDT$$SUB_CMD - change mode SUBSTITUTE command 14-Sep-1984 12:22:47
EDT$CHMSUBS
                    EDTSCHMSUBS - change mode SUBSTITUTE command
                                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                                              Page
V04-000
                                                                                                               DISK$VMSMASTER:[EDT.SRC]CHMSUBS.BLI:1
                            1 %SBTTL 'EDT$$SUB_CMD - change mode SUBSTITUTE command'
                    0660
                    0661
                    0662
                              GLOBAL ROUTINE EDT$$SUB_CMD
                                                                                           ! Change mode SUBSTITUTE command
    94
95
96
97
                    0664
                    0665
                    0666
                                FUNCTIONAL DESCRIPTION:
                    0667
    98
99
                    0668
                                        This routine implements the SUBSTITUTE command. Just search for the
                    0669
                                        search string, delete it and insert the replace string.
   100
                    0670
   101
102
103
104
105
                    0671
                                 FORMAL PARAMETERS:
                    0672
0673
                                        NONE
                    0674
                    0675
                                 IMPLICIT INPUTS:
   106
                    0676
                                        EDT$$G_DIR
EDT$$A_LN_PTR
                    0677
   108
                    0678
                                        EDTSSG_SEA_STRLEN
EDTSST_SEA_STR
EDTSSG_SUB_STRLEN
EDTSST_SUB_STR
                    0679
   110
                    0680
   111
                    0681
   112
                    0682
0683
   114
                    0684
                                 IMPLICIT OUTPUTS:
   115
                    0685
   116
                    0686
                                        NONE
   117
                    0687
   118
                    0688
                                ROUTINE VALUE:
   119
                    0689
   120
121
122
123
124
125
                                        1 = substitution made, 0 = not made (cor o' c or some error)
                    0690
                    0691
                    0692
                                SIDE EFFECTS:
                    0693
                    0694
                                        NONE
                    0695
   126
127
128
129
131
133
135
136
137
138
140
                          1 !--
                    0696
                    0697
                    0698
                                   BEGIN
                    0699
                    0700
                                   EXTERNAL ROUTINE
                    0701
                                        EDT$$DEL_TXTLN : NOVALUE,
                                                                                           ! Delete whole lines of text
                    0702
                                        EDT$$INS_CHS,
                                                                                 ! Insert a string of characters which may include carriage returns
                    0703
                                        EDT$$MSG_BELL : NOVALUE,
                                                                                              Output a message to the terminal with a warning bell
                    0704
                                        EDT$$STR_SEACMD,
EDT$$CS_EFT,
                                                                                              Search for a specific string
                    0705
                                                                                              Move left a character
                    0706
                                        EDT$$CS_RIGHT;
                                                                                           ! Move right a character
                    0707
                    0708
                                   EXTERNAL
                                        ENNAL
EDT$$G_DIR,
EDT$$A_LN_PTR,
EDT$$G_SEA_STRLEN,
EDT$$T_SEA_STR,
EDT$$G_SUB_STRLEN,
EDT$$T_SUB_STR,
EDT$$A_CUR_BUF : REF_TBCB_BLOCK;
                    0709
                                                                                            ! The current direction.
                    0710
                                                                                              Current character pointer
   141
142
143
                    0711
                                                                                             Length of current search string
```

Current search string

! Current SUBSTITUTE string

! Current text buffer control block

! Length of subsistring

**F

```
16-Sep-1984 00:12:59
14-Sep-1984 12:22:47
                                                                                                     VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[EDT.SRC]CHMSUBS.BLI;1
EDTSCHMSUBS
                  EDT$CHMSUBS - change mode SUBSTITUTE command
V04-000
                  EDT$$SUB_CMD - change mode SUBSTITUTE command
                                MESSAGES ((STRNOTFND, BADRANGE));
                  0718
   148
   149
                  0719
                                LOCAL
   150
                                    STS.
   151
                                     NUM_LINES : LN_BLOCK,
   152
153
                                    END_POS;
   154
   155
                           ! Search for the string.
   156
   157
   158
159
                                IF (.EDT$$G_DIR EQL DIR_BACKWARD)
   160
   161
                             Move back one position before starting the search
   162
   163
                                    STS = EDT$$STR_SEACMD (EDT$$T_SEA_STR, .EDT$$G_SEA_STRLEN, 1, .EDT$$G_DIR)
   164
                                ELSE
   165
                                    STS = EDT$$STR_SEACMD (EDT$$T_SEA_STR, .EDT$$G_SEA_STRLEN, 0, .EDT$$G_DIR);
   166
   167
                                IF (.STS EQL 1)
                                THEN
   168
   169
170
                             String was found, do the SUBSTITUTE.
   171
  172
173
                                    BEGIN
  174
175
                             Move to the end of the string, counting the lines involved.
  176
177
                                    MOVELINE (EDT$$A_CUR_BUF [TBCB_CUR_LIN], NUM_LINES);
  178
179
                                    DECR_I_FROM .EDT$$G_SEA_STRLEN - 1 TO 0 DO
                                         EDT$$CS_RIGHT ();
   180
   181
                                    SUBLINE (NUM_LINES, EDT$$A_CUR_BUF [TBCB_CUR_LIN], NUM_LINES);
ADDLINE (NUMBER_ONE, NUM_LINES);
   182
   183
                                    END_POS = .EDT$$A_LN_PTR;
   184
   185
                             Move back to the beginning.
   186
187
   188
                                    DECR I FROM .EDT$$G_SEA_STRLEN - 1 TO 0 DO
   189
                                         EDT$$CS_LEFT ();
   190
  191
192
193
                  0761
                  0762
0763
                             Make sure the string isn't too long.
   194
                  0765
                                     IF ((.NUM_LINES [LN_HI] NEQU 0) OR (.NUM_LINES [LN_MD] NEQU 0))
   196
197
198
                  0766
                                     THEN
                  0767
                  0768
                                         EDT$$MSG_BELL (EDT$_BADRANGE);
   199
                  0769
                                         RETURN (0);
                  0770
   200
                                         END:
   201
                  0771
                        3 !+3 ! Delete the string.
   202
203
```

```
F 13
EDTSCHMSUBS
                                            EDT$CHMSUBS - change mode SUBSTITUTE command 16-Sep-1984 00:12:59 EDT$$SUB_CMD - change mode SUBSTITUTE command 14-Sep-1984 12:22:47
                                                                                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Particular Particul
V04-000
                                            0774
0775
       EDT$$DEL_TXTLN (.NUM_LINES [LN_LO], .END_POS);
                                            0776
0777
                                                                       Insert the replacement string.
                                            0778
                                            0779
                                                                                          EDT$$INS_CHS (EDT$$T_SUB_STR, .EDT$$G_SUB_STRLEN);
                                            0780
                                            0781
                                                                       If we are moving backward, then move back across the string
                                            0782
0783
                                            0784
0785
                                                                                          IF (.EDT$$G_DIR EQL DIR_BACKWARD)
                                                                                          THEN
                                            0786
                                            0787
                                                                                                    DECR I FROM .EDT$$G_SUB_STRLEN TO 1 DO
                                            0788
                                                                                                                EDT$$CS_LEFT ();
                                            0789
                                            0790
                                                                                         RETURN (1);
                                            0791
                                                                                         END
                                            0792
                                                                              ELSE
                                            0793
                                                                                         BEGIN
                                            0794
                                            0795
                                                                       String was not found, EDT$$MSG_BELL an error.
                                            0796
0797
                                            0798
                                                                                         IF (.STS EQL 0) THEN EDT$$MSG_BELL (EDT$_STRNOTFND);
                                            0799
                                            0830
                                                                                         RETURN (0):
                                            0801
                                                                                         END:
                                            0802
                                            0803
                                                                              END:
                                                                                                                                                                                                          ! of routine EDT$$SUB_CMD
                                                                                                                                                                                                                .TITLE EDT$CHMSUBS EDT$CHMSUBS - change mode SUBSTITUT
                                                                                                                                                                                                                                                                        E command
                                                                                                                                                                                                                .IDENT \V04-000\
                                                                                                                                                                                                                                     EDT$$DEL_TXTLN, EDT$$INS_CHS
EDT$$MSG_BELL, EDT$$STR_SEACMD
EDT$$CS_LEFT, EDT$$CS_RIGHT
EDT$$G_DIR, EDT$$A_LN_PTR
EDT$$G_SEA_STRLEN
                                                                                                                                                                                                                 .EXTRN
                                                                                                                                                                                                                 .EXTRN
                                                                                                                                                                                                                 .EXTRN
                                                                                                                                                                                                                 .EXTRN
                                                                                                                                                                                                                 .EXTRN
                                                                                                                                                                                                                                     EDT$$T_SEA_STR, EDT$$G_SUB_STRLEN
EDT$$T_SUB_STR, EDT$$A_CUR_BUF
                                                                                                                                                                                                                 .EXTRN
                                                                                                                                                                                                                .EXTRN
                                                                                                                                                                                                                                     EDTS_STRNOTFND, EDTS_BADRANGE
                                                                                                                                                                                                                .EXTRN
                                                                                                                                                                                                                .PSECT
                                                                                                                                                                                                                                      _EDT$CODE,NOWRT, SHR, PIC,2
                                                                                                                                                                                                                                     EDT$$SUB_CMD, Save R2,R3,R4,R5,R6,R7,R8,R9,-: 0662
                                                                                                                                                          07FC 00000
                                                                                                                                                                                                                 .ENTRY
                                                                                                                                                                                                                                      EDT$$G_SUB_STRLEN, R10
EDT$$CS_LEFT, R9
EDT$$A_CUR_BUF, R8
                                                                                                             5A 00000000G
                                                                                                                                                               9E 00002
                                                                                                                                                                                                                MOVAB
                                                                                                             59 00000000G
                                                                                                                                                    ÕÕ
                                                                                                                                                               9E 00009
                                                                                                                                                                                                               MOVAB
                                                                                                             58 00000000G
                                                                                                                                                    00
                                                                                                                                                               9E 00010
                                                                                                                                                                                                               MOVAB
                                                                                                                                                     00
                                                                                                                                                               9E 00017
                                                                                                                     0000000G
                                                                                                                                                                                                                                      EDT$$G_DIR, R7
                                                                                                                                                                                                                MOVAB
                                                                                                             56
5E
51
                                                                                                                                                               9E 0001E
C2 00025
                                                                                                                                                     ÕÕ
                                                                                                                                                                                                                                      EDT$$G_SEA_STRLEN, R6#8, SP
                                                                                                                     0000000G
                                                                                                                                                                                                                MOVAB
                                                                                                                                                     08
                                                                                                                                                                                                                SUBL 2
                                                                                                                                                    66
                                                                                                                                                               DO 00028
                                                                                                                                                                                                                                                                                                                                                                        0733
                                                                                                                                                                                                                MOVL
                                                                                                                                                                                                                                      EDT$$G_SEA_STRLEN, R1
```

DO 0002B

MOVL

EDT\$\$G_DIR, RO

50

EDT VO4

0728

VAX-11 Bliss-32 V4.0-742 Page 6 DISK\$VMSMASTER:[EDT.SRC]CHMSUBS.BLI;1 (3)

				06 50 01	12 00 00	00030		BNEQ PUSHL PUSHL	1\$ R0 #1	0733
				06 50 04 50 75 51	11 DD D4	00034 00036	1\$:	BRB PUSHL CLRL	2\$ RO -(SP)	0735
	000000006	00	0000000G	00	DD 9f fB	0003A 0003C 00042	2\$:	PUSHL PUSHAB CALLS	R1 EDT\$\$T_SEA_STR #4, EDT\$\$STR_SEACMD STS, #1	
		01	0	04 50 03	D1 13 31	00049 00040		CMPL BEQL Brw	\$15, #1 3\$ 14\$	0737
6E	06	50 A 0	V	380 88 06	28		3\$:	MOVL MOVC3	EDT\$\$A_CUR_BUF, RO #6, 6(RO), NUM_LINES	0746
J.		A0 52		06 66 07	DO 11	00059 00050		MOVL BRB	EDÍSSG_SEA_STREEN, I	0748
	0000000G	00 F6		00 52 AE	FB F4	0005E	4 \$:	CALLS SOBGEQ	NO, EDT\$\$CS_RIGHT	0749
		51	06	AĒ 68	B0 00	00068		MOVW MOVL	UPPER WORD, SAVE	0751
6E	06	A0 52	0 A	68 6E A0	C3	0006F		SUBL3 MOVL	EDT\$\$A CUR_BUF, RO NUM_LINES, 6(RO), NUM_LINES 10(RO), R2	:
	04	50 52 52 AE AE	04	AE 52 51	D9 D0	00078		SBWC MOVL	NUM_LINES, R2 R2, NUM_LINES	
	06	AĒ		51 6E	B0			MOVW Incl	SAVE, UPPER_WORD FIRST_LWORD	0752
			04	6E 03 AE	12 B6	00086		BNEQ INCW	6\$ NEXT_WORD	
		53 52	0000000G	00 66	00	0008B 00092	6\$:	MOVL MOVL	EDT\$\$A_LN_PTR, END_POS EDT\$\$G_SEA_STRLEN, I	: 0753 : 0758
		69 F A		03 00 52	11 FB	00095 00097	7\$:	BRB Calls	8>	0759
		FA	04	AE	F4 B5	0009A 0009D	8\$:	SOBGEQ TSTW	#O, EDT\$\$CS_LEFT I, 7\$ NUM_LINES+4	0765
			02	O5 AE	12 B <u>5</u>	0A000 SA000 SA000		BNEQ TSTW	NUM_LINES+2	
			0000000G	08 8F	13 DD	UUUA/	9\$:	BEQL Pushl	10\$ #EDT\$_BADRANGE	0768
			•	3A 53	11 DD	COOAF	10\$:	BRB PUSHL	15%	0775
	00000006	7E 00	04	ĄĘ OŽ	3C FB	000B5		MOVZWL CALLS	NUM_LINES, -(SP) #2, EDT\$\$DEL_TXTLN	
		•	0000000G	6A 00	DD 9F	000BE		PUSHL PUSHAB	END_POS NUM_LINES, -(SP) #2, EDT\$\$DEL_TXTLN EDT\$\$G_SUB_STRLEN EDT\$\$T_SUB_STR	0779
	0000000G	00		02 67	FB D5	000C4 000CB		CALLS TSTL	#2, EDT\$\$INS_CHS EDT\$\$G_DIR 13\$	0784
52		6A		00 01 03 00 52 01	12	000CF		BNEQ ADDL3	#1, EDT\$\$G_SUB_STRLEN, I	0787
		69		03	11 FB	000D3 000D5	115:	BRB Calls Sobgtr	WO, EDT\$\$CS_LEFT	0788
		F A 50		01	F 5		12 \$: 13 \$:	MOVL	1, 11\$ #1, R0	0793
				50	04 05	000DE 000DF	145:	RET TSTL	STS 16\$	0798
	000000006	00	000000006	0D 8F 01	12 DD FB	000E3	15\$:	BNEQ PUSHL CALLS	#EDTS_STRNOTFND #1, EDTS\$MSG_BELL	:

EDT VO4

EDT\$CHMSUBS - change mode SUBSTITUTE command 16-Sep-1984 00:12:59 EDT\$\$SUB_CMD - change mode SUBSTITUTE command 14-Sep-1984 12:22:47 EDTSCHMSUBS V04-000

VAX-11 Bliss-32 V4.0-742 Page 7 DISK\$VMSMASTER:[EDT.SRC]CHMSUBS.BLI;1 (3)

: 0803

; Routine Size: 243 bytes, Routine Base: _EDT\$CODE + 0000

234 235

0804 1 0805 1 !<BLF/PAGE>

EDTSCHMSUBS V04-000	EDT\$CHMSUBS - change mode SUBSTITUTE command EDT\$\$SUB_CMD - change mode SUBSTITUTE command	I 13 16-Sep-1984 00:12:59 14-Sep-1984 12:22:47	VAX-11 Bliss-32 V4.0-742 Page 8 DISK\$vMSMASTER:[EDT.SRC]CHMSUBS.BLI;1 (4)
237 238 239	0806 1 END 0807 1 0808 0 ELUDOM	! of module ED	T\$CHMSUBS

PSECT SUMMARY

Name Bytes Attributes 243 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2) _EDT\$CODE

Library Statistics

	*****	- Symbols		Pages	Processing Time	
File	Total	Loaded	Percent	Mapped		
_\$255\$DUA28:[EDT.SRC]EDT.L32;1 _\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	377 2	35 1	9 50	40 7	00:00.2 00:00.1	

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:CHMSUBS/OBJ=OBJ\$:CHMSUBS MSRC\$:CHMSUBS.BLI/UPDATE=(ENH\$:CHMSUBS

243 code + 0 data bytes 00:15.4 00:19.0 Size: Run Time:

Elapsed Time: 00:13.6 Elapsed Time: 00:19.0 Lines/CPU Min: 3146 Lexemes/CPU-Min: 11937 Memory Used: 117 pages Compilation Complete

0132 AH-BT13A-SE

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